TEAAS Fundamentals

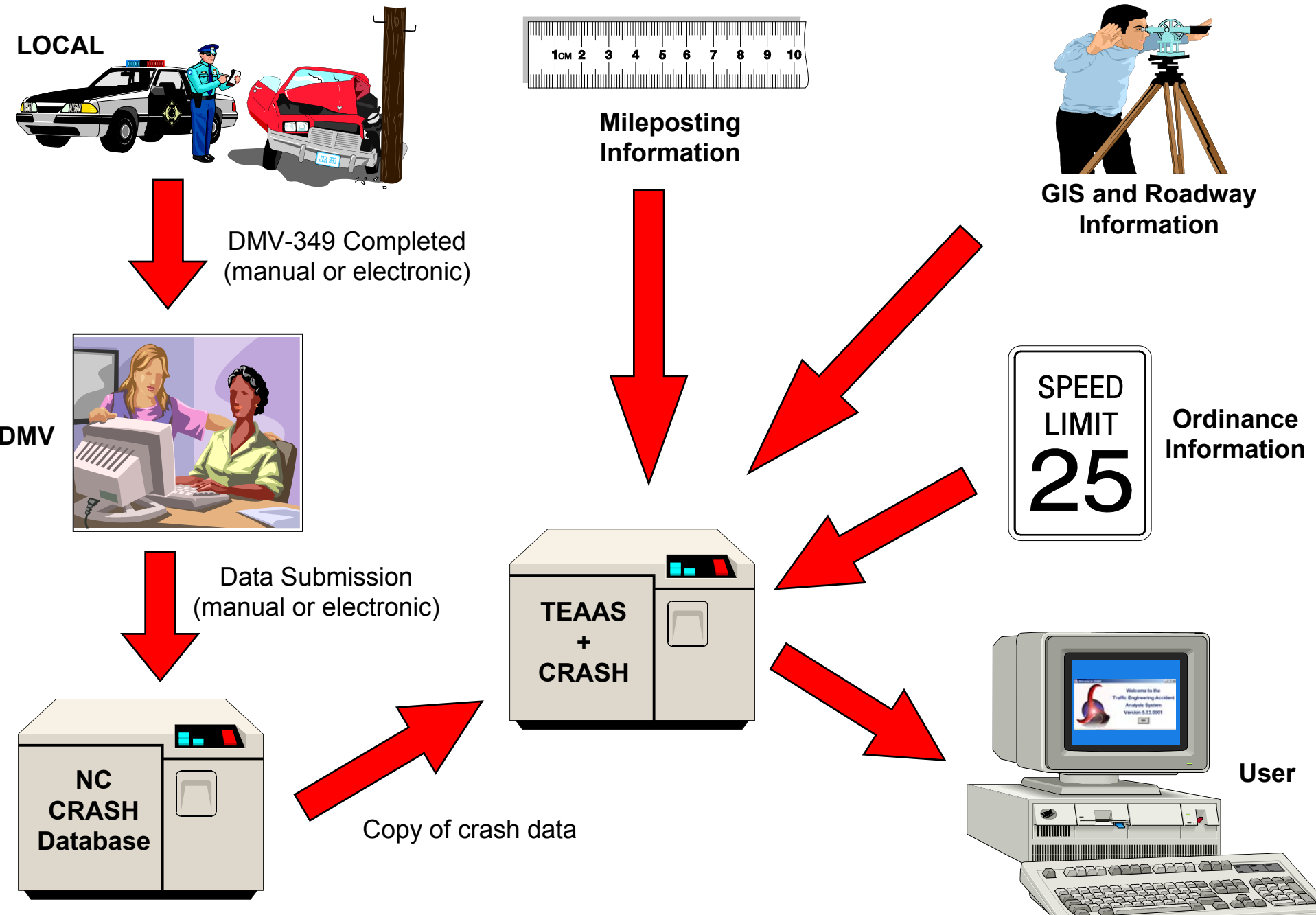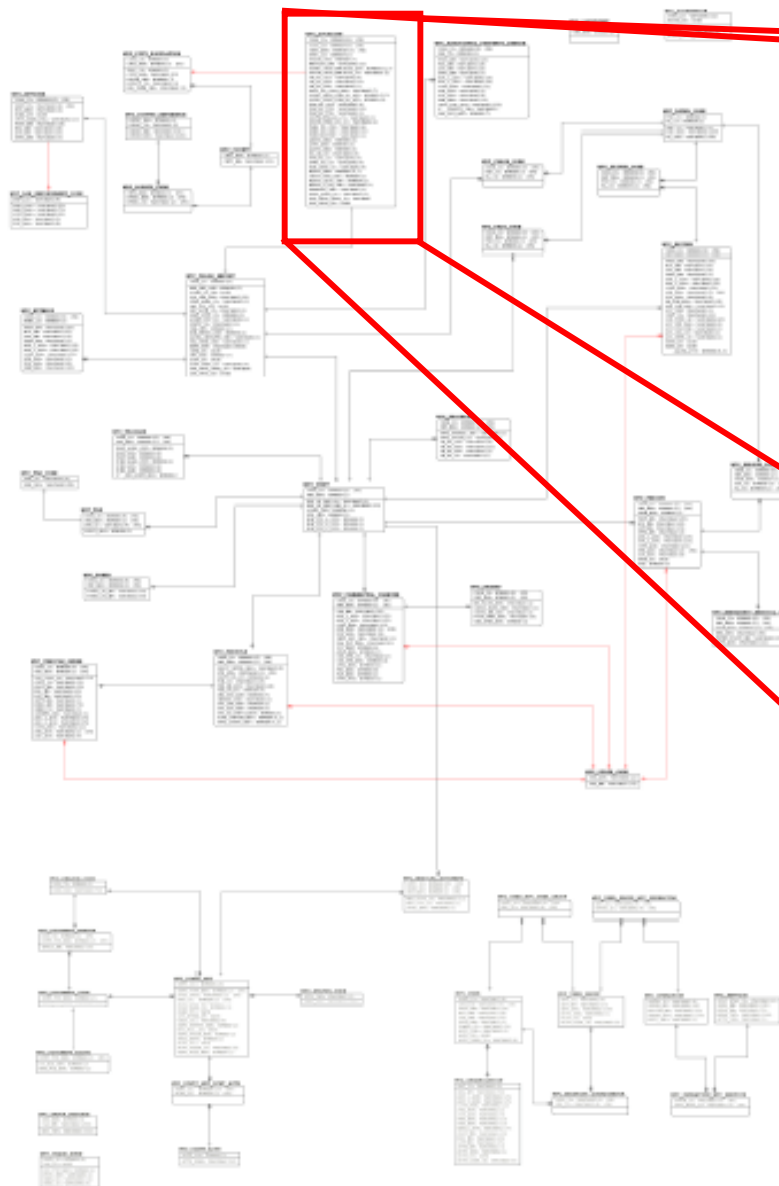# TEAAS

- Acronym for the "Traffic Engineering Accident Analysis System"

- Used by traffic engineering personnel and other agencies to perform crash analyses, review legal ordinances, etc.

- Database contains crash, roadway, mileposting, code data, ordinance, and user information

Database Structure and Data Flow

LOCAL

DMV-349 Completed
(manual or electronic)

DMV

Data Submission
(manual or electronic)

NC CRASH Database

Copy of crash data

Mileposting Information

GIS and Roadway Information

SPEED LIMIT 25

Ordinance Information

TEAAS + CRASH

User

**Crash Data Model**

MVC_LOCATION

| |
| --- |
| CRSH_ID: NUMBER(9) (FK) |
| CITY_CD: NUMBER(6) (FK) |
| CNTY_NBR: NUMBER(3) (FK) |
| TRFC_CD: NUMBER(2) |
| PPLTN_CNT: NUMBER(7) |
| MNCPLTY_NM: VARCHAR2(22) |
| DSTNC_OTSD_MNCPLTY_QTY: NUMBER(5,3) |
| DRCTN_OTSD_MNCPLTY_CD: VARCHAR2(2) |
| ON_RD_CLS: VARCHAR2(4) |
| ON_RD_TXT: VARCHAR2(22) |
| ON_RD_TYP: VARCHAR2(1) |
| RAIL_RD_CRSG_NBR: VARCHAR2(7) |
| DSTNC_MILE_FRM_RD_QTY: NUMBER(5,3) |
| DSTNC_FEET_FRM_RD_QTY: NUMBER(4) |
| FRM_RD_CLS: VARCHAR2(4) |
| FRM_RD_TXT: VARCHAR2(22) |
| FRM_RD_TYP: VARCHAR2(1) |
| DRCTN_FRM_RD_CD: VARCHAR2(2) |
| DRCTN_TWRD_RD_CD: VARCHAR2(2) |
| TWRD_RD_CLS: VARCHAR2(4) |
| TWRD_RD_TXT: VARCHAR2(22) |
| TWRD_RD_TYP: VARCHAR2(1) |
| LNGTD_NBR: NUMBER(6) |
| LTTD_NBR: NUMBER(6) |
| ALTTD_NBR: NUMBER(6) |
| RD_ON_CD: VARCHAR2(8) |
| FRM_RD_CD: VARCHAR2(8) |
| TWRD_RD_CD: VARCHAR2(8) |
| RTE_INVD_CD: VARCHAR2(8) |
| MLPST_NBR: NUMBER(6,3) |
| CNCDG_RTE_IND: NUMBER(1) |
| MLPST_QLTY_IND: NUMBER(1) |
| MLPST_Y_LN_IND: VARCHAR2(1) |
| REMLPST_IND: VARCHAR2(1) |
| RPRT_STTS_CD: VARCHAR2(1) |
| LST_UPDT_USER_ID: VARCHAR6 |
| LST_UPDT_TS: DATE |

TEAAS Database Structure

TEAAS Physical Data Model
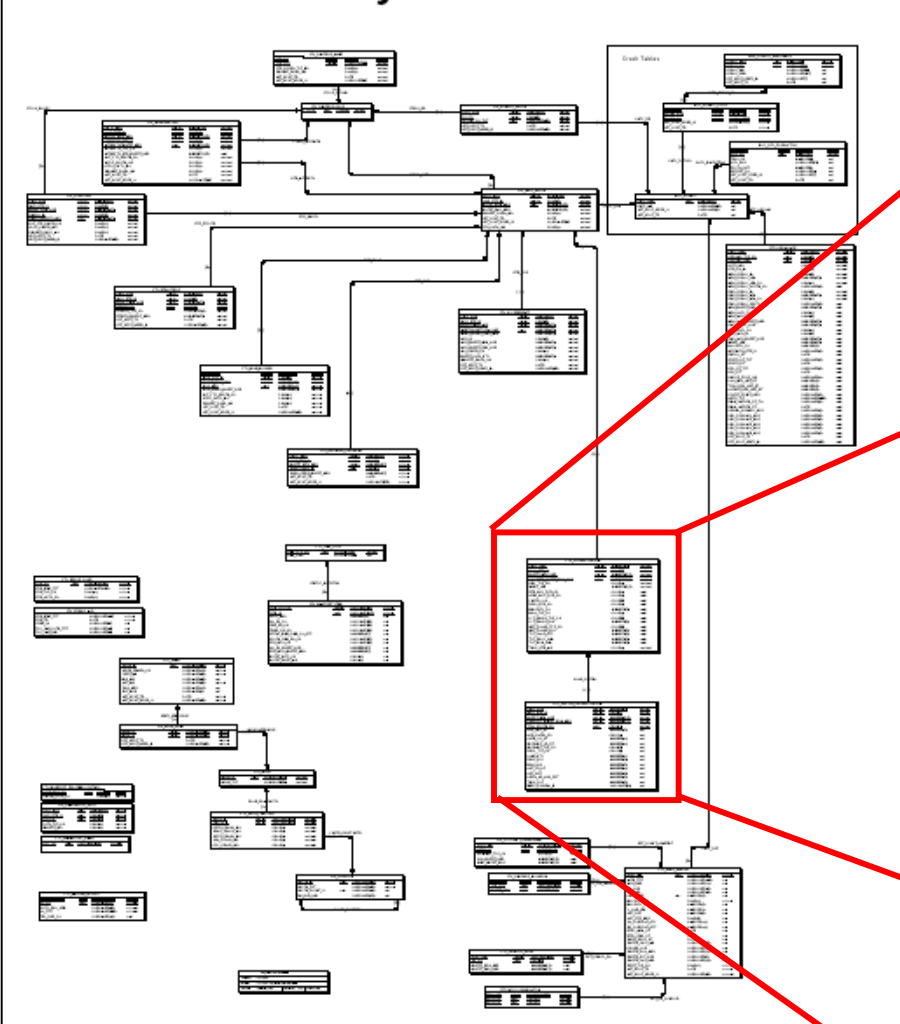
FTV_CHARACTERISTIC

CNTY_NBR	<pk,fk>	NUMBER(3)	not null
INVD_RTE_ID	<pk,fk>	CHAR(8)	not null
MLPST_BGN_NBR	<pk,fk>	NUMBER(6,3)	not null
CHARSTC_MLPST_BGN_NBR	<pk>	NUMBER(6,3)	not null
REC_TYP_CD		CHAR(1)	not null
SGMT_LEN		NUMBER(6,3)	not null
STE_HWY_SYS_CD		CHAR(1)	null
NTNL_HWY_SYS_CD		CHAR(1)	null
FNCTNL_CD		CHAR(2)	null
SPCL_SYS_CD		CHAR(1)	null
MNCPLTY_CD		NUMBER(3)	null
MDN_TYP_CD		CHAR(1)	null
LFT_SHLDR_TYP_CD		CHAR(2)	null
LFT_SHLDR_WID		NUMBER(2)	null
RGT_SHLDR_TYP_CD		CHAR(2)	null
RGT_SHLDR_WID		NUMBER(2)	null
TOT_LANE_QTY		NUMBER(2)	null
TOT_SRFC_WID		NUMBER(3)	null
TOT_MDN_WID		NUMBER(3)	null
TRCK_RTE_IND		CHAR(1)	not null

CHAR_DRCTNL

[1,2]

FTV_DRCTNL_CHARACTERISTIC

CNTY_NBR	<pk,fk>	NUMBER(3)	not null
INVD_RTE_ID	<pk,fk>	CHAR(8)	not null
MLPST_BGN_NBR	<pk,fk>	NUMBER(6,3)	not null
CHARSTC_MLPST_BGN_NBR	<pk,fk>	NUMBER(6,3)	not null
TRVL_DRCTN_CD	<pk>	CHAR(1)	not null
SPD_LMT_RT		NUMBER(2)	null
ACS_CNTRL_CD		CHAR(1)	null
ADTN_YR_DT		NUMBER(4)	null
IMPRVMT_YR_DT		NUMBER(4)	null
IMPRVMT_TYP_CD		CHAR(2)	null
SRFC_TYP_CD		CHAR(2)	null
LANE_QTY		NUMBER(1)	null
SRFC_WID		NUMBER(3)	null
MDN_WID		NUMBER(2)	null
ADT_YR_DT		NUMBER(4)	null
ADT_CNT		NUMBER(8)	null
DSGN_HR_VLM_PCT		NUMBER(2)	null
TRCK_PCT		NUMBER(2)	null
SMPL_SBDVSN_ID		VARCHAR2(6)	null

Downloading TEAAS

http://dmvcrashweb.dot.state.nc.us/TEAAS/index.htm
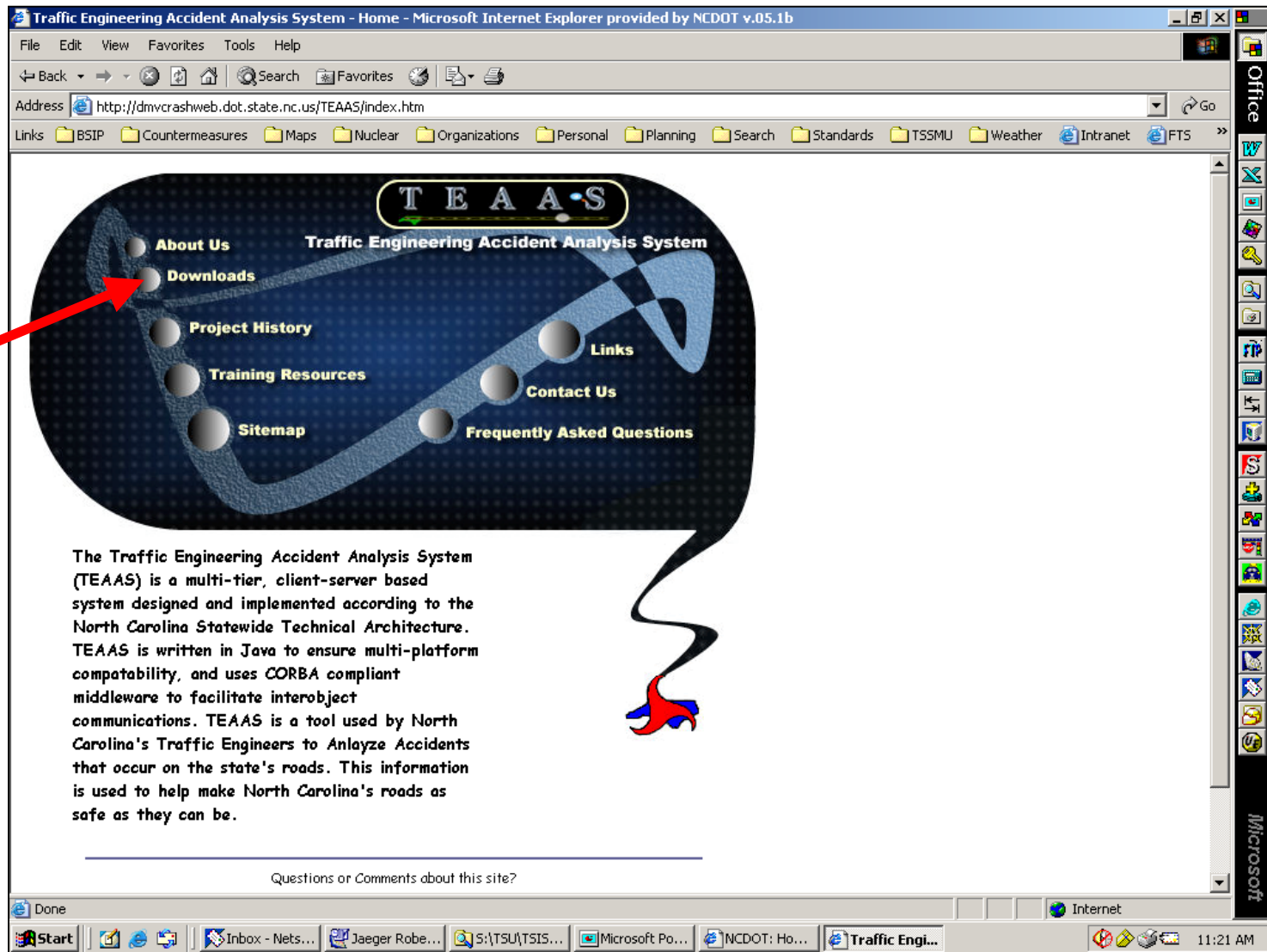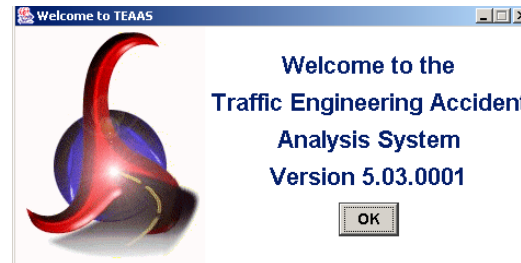
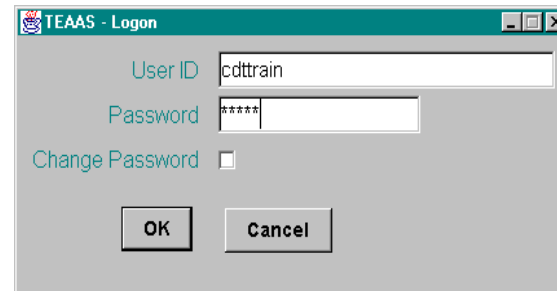# Downloading TEAAS (cont.)

Internal Users: NCDOT employees
External Users: everybody else

Logging on to TEAAS

• Double-click the TEAAS icon to launch the TEAAS application and the "splash screen" will appear:



• Next click on the "OK" button to open the logon screen

• Then enter your TEAAS User ID and password

• Contact the TEAAS administrator if assistance is needed

• Three consecutive unsuccessful logon attempts will cause the TEAAS application to automatically close

Changing The TEAAS Password

• Double-click the TEAAS icon to launch the TEAAS application and the "splash screen" will appear:
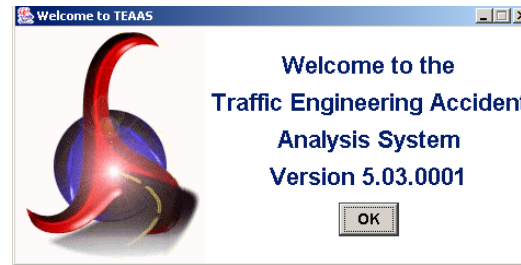
• Next click on the "OK" button to open the logon screen
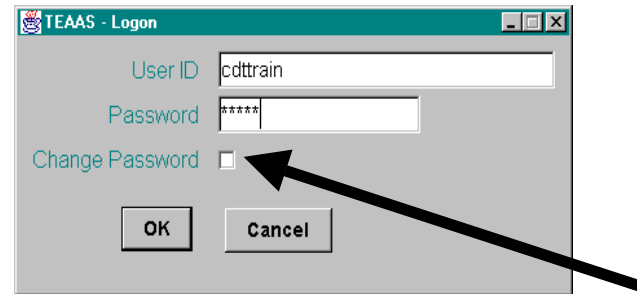
• Then enter your TEAAS User ID and password

• Check the "Change Password" field

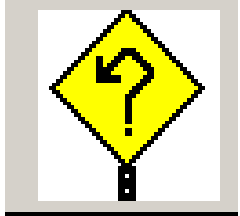• The system will prompt you for a new password (and ask you to confirm it)

- Control center for TEAAS

- All major functions are shown on the vertical menu bar on the left side of the screen

- After selecting a major function icon, select sub-functions from the list box on the right
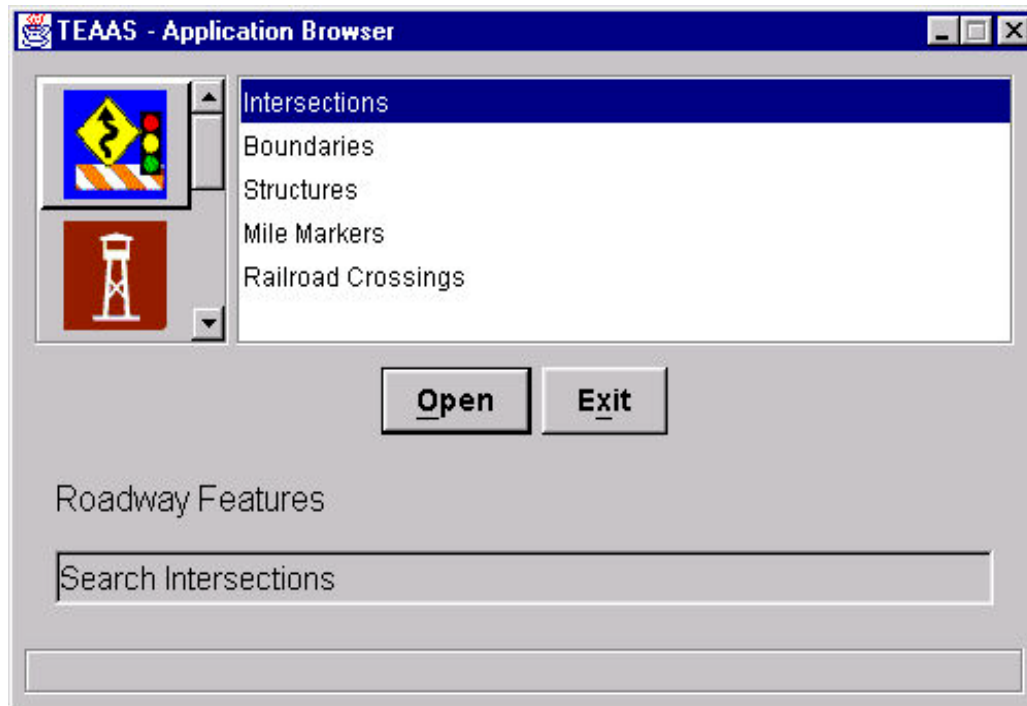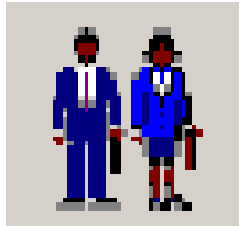
Application Browser Functions

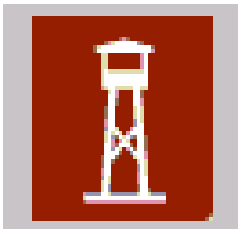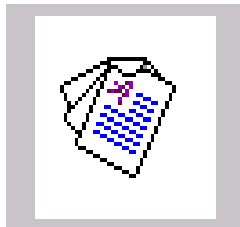| Function Name		Sub-Functions
Ordinances		•Ordinances
Users		•User information
Roadway Features		•Intersections •Mile Markers •Boundaries •Railroad Crossing •Structures
Feature Names and Secondary Routes		•Street and Features Name •Secondary Routes

Application Browser Functions

| **Function Name**	**Sub-Functions**	
Generate Reports	•Fiche Report •Intersection Analysis Report •Strip Analysis Report •Fiche, Intersection, & Strip Reports Code Index	•Features Report •Highest Order Segments Report •Inc. Munic Report
Inventoried Routes and Highest Order Segments	•Highest Order Segments •Inventoried Routes	
City/County-Wide Accident Reports	•City-Wide Accident Reports •County-Wide Accident Reports	

Tool Bar Icons
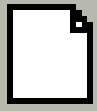
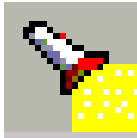**New** - Creates blank form for entering a new record
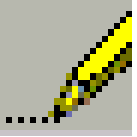
Modify - Permits modification of the current record

Delete - Permits deletion of the current record
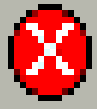
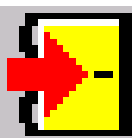**Cancel** - Cancels a *New*, *Modify* or *Search* operation

Search - Allows specific search criteria

Go - Initiates search (based on specified criteria)

Save - Saves a record (either a new record, or changes to an existing record being modified)

Close - Closes the screen

Audit Bar

- The audit bar appears at the bottom of all TEAAS screens that permit data entry

- Indicates what user last updated the current record and when it was updated

Navigation Bar

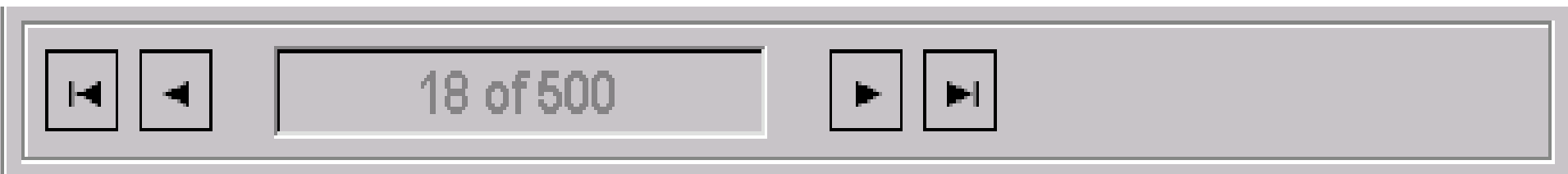• Results of searches are returned and displayed one record at a time

• The navigation bar at bottom of screen shows both the number of the current record being viewed and the total number of records returned in search

• Arrow buttons allow navigation through the records

• No more than 500 records are returned in a search

18 of 500

TEAAS Formats

Years - should always be 4-digits (i.e. "2004" and not "04")

State Road Names - should always have a space between the alpha characters and the numeric characters (i.e. "NC 150" and not "NC150")

crash-teaas@dot.state.nc.us